### **ACS DEPARTURE MODING**

1. ENABLE DEPARTURE SWITCH MONITORING FOR ACS MODING PCS MCS: ACS Moding ACS Moding 'ACS Configuration' √Moding Role Primary, Secondary NCS - Full If Primary/Secondary NCS Moding Role is not set to Full, \* then the following commands should be sent sel Moding Role **cmd** N1-1 - Arm **cmd** N1-2 - Arm √Arm Status Primary, Secondary NCS - Arm cmd N1-1 - Full cmd N1-2 - Full √Moding Role Primary, Secondary NCS - Full √Arm Status Primary, Secondary NCS - Disarm 'Departure' sel PMA2 Departure Response SW 'Primary NCS' cmd Enable Arm √Arm Status - Arm cmd Enable √Departure SW - Ena √Arm Status - Disarm 'Secondary NCS' cmd Enable Arm √Arm Status - Arm cmd Enable √Departure SW - Ena √Arm Status - Disarm 2. VERIFY DEPARTURE EVENT SOFTWARE STATUS

'Departure'

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<sup>√</sup>Departure Event Primary, Secondary NCS - Blank

# 3. ENABLE APAS LED LIGHTING

MCS: ACS Moding
ACS Moding

PCS

# **NOTE**

Each of the primary and secondary commands turns on two of the four LED ACS indication lights (i.e., 4 total). LED configurations: On - Active Attitude Control, Off - Power Off, Flash - ISS in Free Drift.

'ACS Configuration'

sel LED Control SW

'Primary NCS'

cmd Enable √LED Control SW - Ena √PMA2 LED State - Flash

'Secondary NCS'

**cmd** Enable √LED Control SW - Ena √PMA2 LED State - Flash

Visual verification by orbiter crew that LED indicators are flashing (-Z windows).

4. MONITOR NCS SEPARATION SIGNALS AND VERIFY ORBITER

DEPARTURE AND POST SEPARATION LED MODE CHANGE

Perform CONFIGURATION C&DH FOR ORBITER UNDOCKING, all,

(SODF: C&DH), then:

Verify **MCC-H/MCC-M** Go for orbiter departure.

#### NOTE

- Monitor the change in parameter values during orbiter undocking. At orbiter separation (i.e., Undocking Complete is true and Interface Sealed is false), the attitude control countdown timer is initiated.
- Monitor the Countdown Timer. The primary Departure Event is received when the Countdown Timer reaches zero. The occurrence of this event prompts the SM to reactivate its ACS system.
- 3. For flights 2A through 3A, orbiter crew interface will be lost at OIU disconnect.

The following will be conducted via ground control.

PCS MCS: ACS Moding ACS Moding

'Departure'

√PMA2 Interface Sealed Primary, Secondary NCS - Blank

√PMA2 Undocking Complete Primary, Secondary NCS - X

√Countdown Timer Primary, Secondary NCS - (Decreasing)

 $\sqrt{\text{Departure Event Primary, Secondary NCS - X (when timer = 00:00)}}$ 

5. <u>VERIFY RUSSIAN SEGMANT MODE STATUS</u>

'ACS Configuration'

√RS Mode Primary NCS - Cntl

√RS Mode Secondary NCS - Cntl

√PMA2 LED State Primary NCS - On

√PMA2 LED State Secondary NCS - On

Visual verification by orbiter crew that LED Indicators are On (-Z windows).

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